


Grade: 6th	Subject: Mathematics
(1) Standard(s): MACC.6.NS.1.1 Interpret and compute quotients of fractions, and solve word problems involving division of fractions by fractions, e.g., by using visual fraction models and equations to represent the problem.	
(2) Skills – Students should be able to do <div style="text-align: center;">  </div> <ul style="list-style-type: none"> • Interpret and compute • Solve 	(3) Concepts – Student should know <div style="border: 1px solid black; padding: 5px; text-align: center;"> Nouns/ Noun Phrases </div> <ul style="list-style-type: none"> • Quotients of fractions • Word problems involving division of fractions by fractions
(4) Implied Skills - 21st Century Skills/Engagement Domains <ul style="list-style-type: none"> • Creativity and Innovation • Critical Thinking and Problem Solving • Communication and Collaboration • Flexibility and Adaptability 	
(5) Instructional Implications - Learning Goal(s) leading to the development of an Essential Question <ul style="list-style-type: none"> • Students must be provided with the opportunity to utilize a variety of tools to solve word problems involving division of fractions by fractions (e.g., visual fraction models and equations to solve the problem). 	
Critical Area of Focus: Apply and extend previous understandings of multiplication and division to divide fractions by fractions. For example, create a story context for $(2/3) \div (3/4)$ and use a visual fraction model to show the quotient; use the relationship between multiplication and division to explain that $(2/3) \div (3/4) = 8/9$ because $3/4$ of $8/9$ is $2/3$. (In general, $(a/b) \div (c/d) = ad/bc$.) How much chocolate will each person get if 3 people share $1/2$ lb of chocolate equally? How many $3/4$ -cup servings are in $2/3$ of a cup of yogurt? How wide is a rectangular strip of land with length $3/4$ mi and area $1/2$ square mi?	
Essential Questions: What is a real-world example where you would need to divide fractions by fractions? How could the problem be solved concretely?	
Target Learning Progression: The Number System- 6th <ul style="list-style-type: none"> • Apply and extend previous understandings of multiplication and division to divide fractions by fractions. • Compute fluently with multi-digit numbers and find common factors and multiples. • Apply and extend previous understandings of numbers to the system of rational numbers. 7th <ul style="list-style-type: none"> • Apply and extend previous understandings of operations with fractions to add, subtract, multiply, and divide rational numbers. 8th <ul style="list-style-type: none"> • Know that there are numbers that are not rational, and approximate them by rational numbers. 	